

Name - Md. Sazzad Khan, I'd - 22-49172-3, Signature -
MSKhan

3. Function : Return total number of books.

→ Create OR Replace Function total_books

Return Number Is

book_count Number;

Begin

select count(*) INTO book_count from book;

Return book_count;

END;

/

4. Procedure : update edition from 10 to 20.

→ Create OR Replace Procedure update_edition

Is

Begin

Update book

Set edition = '20'

Where edition = '10';

Commit;

DBMS_OUTPUT.PUT_LINE (SQL%ROWCOUNT || ' row(s)'
updated (edition 10 → 20).');

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Exception

When Others Then

Rollback;

```
DBMS_OUTPUT.PUT_LINE('Error:' || SQLERRM);
END;
/
```

5. Record : Output the name of the book whose id is 111.

→ Declare

```
rc_book book%Rowtype;
```

Begin

```
Select * Into rc_book
```

```
From book
```

```
Where b_id = 111
```

```
AND ROWNUM = 1;
```

```
DBMS_OUTPUT.PUT_LINE('Book name for  
id 111 : ' || rc_book.b_name);
```

Exception

When NO_DATA_FOUND Then

```
DBMS_OUTPUT.PUT_LINE('No book found');
```

```
END;
```

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6. Record that output the name of all books
→ Declare

CURSOR C-books IS Select * From book;
π-book book%Rowtype;

Begin

Open C-books;

Loop

FETCH C-books into π-book;

EXIT When C-books ≠ NOTFOUND;

DBMS_OUTPUT.PUT_LINE ('Book Name ' ||
π-book. b-name);

END Loop;

Close C-books;

END;

/

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7. Cursor : Output Id and Name of all categories
→ Declare

cursor c-cat IS

Select c-id, c-name From category;
id category.c-id %Type;

name category.c-name %Type;

Begin

Open c-cat;

Loop

~~FOR~~ FETCH c-cat Into id, name;

EXIT When c-cat % NOTFOUND;

DBMS-OUTPUT.PUT_LINE ('Category ID ' || id ||
' Name ' || name);

END Loop;

Close c-cat;

END;

/

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8. Trigger: Insert to category output "New Category Added".

→ Create OR Replace Trigger category-insert
After Insert on category
For each Row

Begin

```
DBMS_OUTPUT.PUT_LINE('New Category Added');  
END;  
/
```

9. Trigger: Delete from category output "A category Deleted".

→ Create OR Replace trigger category-delete
After Delete ON category
For Each Row

Begin

```
DBMS_OUTPUT.PUT_LINE('A category Deleted');  
END;  
/
```

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10. Package : contains a procedure to display book name by id

Package Specification

```
Create OR Replace Package book-pkg IS
  Procedure show-book-name (p-b-id NUMBER);
END book-pkg;
/
```

Package Body

```
Create OR Replace Package Body book-pkg IS
  Procedure show-book-name (p-b-id Number) IS
    name book.b-name%Type;
  Begin
```

```
    Select b-name Into name From book
      Where b-id = p-b-id
        AND ROWNUM = 1;
```

```
    DBMS-OUTPUT.PUT-LINE ('Book Name ' || name);
```

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Exception

When NO_DATA_FOUND Then

DBMS_OUTPUT.PUT_LINE ('NO book found');

END Show-book-name;

END book-pkg;

/